

ABSTRACT OF THE DISCLOSURE

Authenticating a user of an un-trusted computing system, the user having at least one portable computing device coupled to a peripheral device, may be accomplished by randomly generating a temporary password by the portable computing device, sending the temporary password to the peripheral device, rendering the temporary password by the peripheral device for perception by the user, inputting a password, by the user, into the un-trusted computing system, receiving, by the portable computing device, the password input by the user from the un-trusted computing system, and allowing access to the portable computing device using the un-trusted computing system when the temporary password matches the user-inputted password. In one embodiment, the peripheral device may be a small form factor device worn by the user. In one embodiment, the user may carry or have immediate access to multiple portable computing devices.